Dufresne-Henry, Inc.
A DVI Company
Precision Park ◊ North Springfield, Vermont 05150-0029 ◊ Tel.: 802 / 886 / 2261 ◊ Fax: 802 / 886 / 2260

October 29, 1997

Bob Butler
SMS/WMD
103 So. Main Street/West Office
Waterbury, Vermont 05671

Re: Former Soucy Motors
Initial Site Investigation
SMS Site # 97-2210
DH 4170055

Dear Bob:

Enclosed is our Initial Site Investigation of the former Soucy Motors property. We look forward to you comments and to obtaining a SMAC designation for this site.

Very truly yours,

DUFRESNE-HENRY, INC.

F. David Deane, P.E.
Environmental Services Division

FDD/dim

Enclosure

cc Tom Soucy

SMSSoucyTran1029

Phase (check one)	Type (check one)
☒ Initial Site Investigation ☐ Corrective Action Feasibility Investigation ☐ Corrective Action Plan ☐ Corrective Action Summary Report ☐ Operations & Monitoring Report	☐ Work Scope ☒ Technical Report ☐ PCF Reimbursement Request ☐ General Correspondence

INITIAL SITE INVESTIGATION

Former Soucy Motors
North Springfield, VT 05150
SMS Site #97-2210

A Facility Owned By:
T & I Corp.
518 Spencer Hollow Road
Springfield, VT 05156
(802) 885-9180
Contact: Thomas J. Soucy

Prepared By:
Dufresne-Henry, Inc.
Precision Park
North Springfield, VT 05150
(802) 886-2261
Contact: F. David Deane, P.E.

October 29, 1997

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EXECUTIVE SUMMARY

An Initial Site Investigation has been completed at the former T & I Corp (former Soucy Motors) facility in North Springfield, Vermont. The investigation was in response to the discovery of a petroleum product release during a Tank Closure Assessment in June 1997. Contamination of soil was confirmed, contamination of groundwater was judged likely. Per discussions with the Underground Storage Tank Program, all soil excavated from the tank beds was backfilled pending additional investigation.

Two shallow groundwater monitoring wells were installed on the site in July 1997. Three shallow groundwater wells had been previously installed as part of a Phase II Environmental Site Assessment (ESA) in February 1997. The three wells closest to the former tank locations were sampled and analyzed for BTEX and MTBE by EPA Method 8020(mod). Low concentrations of Benzene, Toluene, Ethylbenzene, Xylenes were found in the well immediately adjacent to the former fuel tanks and trace concentrations in samples from two of the other monitoring wells. All of the compounds were well below the Vermont Groundwater Quality Enforcement Standards.

Soil on the site is fine to coarse sand and gravel with traces of silt. The permeability is judged to be relatively high. The depth to bedrock is unknown, and there are no outcrops in the vicinity. . Based on a single round of sounding, the direction of groundwater flow is west towards the Black River which is about 150 feet from the former UST location. The water table across the site slopes towards the river at about 10%.

All of the properties in the immediate vicinity of the site are on the municipal water supply system. The site is approximately 400 feet east of the westerly limit of the Gilchrist/Chapman Meadows Well Fields which provides the municipal water supply, but is separated from the site by the Black River. The closest wells are approximately 800 feet from the site. Based on best available information, the site is within the secondary aquifer protection area delineated for the well field. The area upgradient of the site is estimated to be about 2% of the total identified aquifer protection area.

Based on these findings we conclude that the site does not meet the SMS criteria for corrective actions. No further investigation is recommended and the site should be considered for SMAC status.

INITIAL SITE INVESTIGATION
FORMER SOUCY MOTORS
N. SPRINGFIELD, VERMONT

Introduction

The former Soucy Motors facility in N. Springfield, Vermont is located on River Street (VT Route 106). At the time this investigation was initiated, the property was owned by T & I Corp. It has since been sold to Abel Toll who operates the business as Springfield Motors. A site vicinity map is included as Appendix A.

Dufresne-Henry, Inc. performed a Tank Closure Assessment at the site on June 19, 1997. Initially only three (3) tanks were scheduled for closure. A fourth was found during excavation and removed as well. The tanks were one 6,000 gallon, two 3,000 gallon and one 4,000 gallon located side by side. All were identified as containing gasoline, although diesel or kerosene could have been stored. The tanks had been out of service for approximately 30 years. Evidence of soil contamination was observed, and two of the tanks had holes in them. Soil headspace readings of up to 2,500 ppm were observed with a Photovac HL-2,000. The excavations were backfilled with the permission of Marc Coleman of the VT USTP. The owner opted to participate in the "Expressway Program". A copy of the closure assessment report is included as Appendix B.

Work and Health and Safety Plans

As a result of the findings of the Tank Closure Assessment, and the desire of the owner to follow the Expressway Program, Dufresne-Henry initiated this investigation in early July without submission of a formal work plan to the Sites Management Section (SMS). Dufresne-Henry also prepared a Health and Safety Plan for the activities at the site. A copy of the Health and Safety Plan will be found in Appendix C. The remainder of this report describes the on-site activities and subsequent findings and recommendations.

Site Description

The facility is located in a mixed commercial/residential area on the west side of River Road (VT Route 106) in North Springfield, VT. The property, comprising approximately 2 acres, consists of a single story building utilized as a car dealership. Much of the site is paved or gravel parking area used for vehicle display. The area over the former UST's was paved. The building contains office and showroom space, a multiple bay service area and two service garages. The property is served by the municipal water and an on-site wastewater disposal systems. The site is located on the first terrace above the Black River. The portion of the property occupied by the building and formerly by the UST's is flat. The overall slope of the property, from east to west, is towards the Black River. Surrounding land to the north and south is a mix of commercial and residential. The Black River is immediately to the west across Rte 106.

The former UST's were in a cluster to the south of the building. A former pump island, reportedly removed many years ago, was located northwest of the UST's, based on a patch observed in the pavement. The ages of the USTs were estimated by the former owner as about 35 years. Until they were discovered during regrading activities for the new owner, it was thought that they had been removed approximately 30 years ago. Each of the UST's contained 1" - 2" of a water/product mixture. The tank bases were slightly below the water table observed at the time of removal. Two of the tanks were judged to be in good condition, and two had small holes. The contamination observed appears to have been the result of leakage from residual product left in the tanks when their usage ceased approximately 30 years ago.

Site History

The history of the site is not completely known. Available information suggests the building is approximately 35 to 40 years old. The surrounding development in the area appears to be of a similar age. The property was originally constructed for and is currently used as an auto dealership.

No other UST's are known to exist on the property. At the time of this investigation the building was heated by wood stoves and a waste oil heater. Quantities of automotive fluids, tools and other repair equipment, and a parts washer were observed in the vehicle service area. No other hazardous materials stored on the property or conditions of concern were identified in

the Phase II ESA. That report was copyrighted by the authors, Provan & Lorber, Inc., and thus is not appended to this investigation. Mr. Toll did provide a copy of the report for us to review.

The October 7, 1997 edition of the Vermont Hazardous Waste Sites List maintained by the HMMD contains 18 other sites in Springfield. None are judged to have any impact on the property.

Monitoring Well Installation

Two (2) shallow groundwater monitoring wells, DH-1 and DH-2, were installed on August 12, 1997 by M & W Soils Engineering, Inc. of Charlestown, New Hampshire. These boring and well installations were under the field observation of Dufresne-Henry personnel. The DH wells supplement three (3) shallow groundwater monitoring wells, MW-1, MW-2 and MW-3, that were installed by Green Mountain Borings in January 1997 for the Provan & Lorber assessment. The relative locations of all of the wells are shown on the site sketch in Appendix D. The tanks actually extended from the light pole as shown to a point about equal to the sign. The sketch is not at all to scale.

DH-1, DH-2 and MW-2 are clustered around the former UST location. Well DH-1 is located just southwest of the former UST's in soil undisturbed by the removal. Well DH-2 is located further to the southwest towards the Black River. Wells MW-1 and MW-3 were placed to evaluate other potential avenues of contaminants as a part of the Phase II ESA. Logs of the DH borings and monitoring well installation reports are included in Appendix E. The logs for the Provan and Lorber installations show nearly identical site conditions.

During boring advancement split spoon soil samples were taken at various intervals as determined by the Dufresne-Henry inspector. All soil samples were screened for the presence of Volatile Organic Compounds (VOC's) with a Photovac MicroTIP HL-2000 photoionization detector (10.6 eV lamp, calibrated with 100 ppm Isobutylene). The screening was done at ambient temperature.

Due to its proximity to the former fuel UST's, continuous split spoon soil sampling was done at DH-1 once the water table was encountered. Soil with a faint petroleum odor was encountered from approximately 10' to 16'. The PID readings ranged from about 6 ppm to a

maximum of 98 ppm. The deepest sample from 16' to 18' was in a gravel layer and gave a headspace reading of only 1.8 ppm. In boring DH-2 there was no evidence of contamination by visual or olfactory sense observed in the samples or on the drilling tools. PID readings from MW-2 headspace samples were consistently 0 ppm.

Two-inch diameter PVC monitoring wells were installed in the borings DH-1 and DH-2. Each well was constructed from .010" machine slotted screen. The screened intervals were from 5' to 15' below grade for DH-1 and 10' to 20' below grade for DH-2. Each well was backfilled with clean silica sand to a point above the screen and a bentonite seal installed. The wells were protected at the ground surface by grouting in watertight monitoring well boxes. Excess clean soil was spread near the well locations. Potentially contaminated soil was spread at the fuel UST excavation.

Site Geology

Surficial geology at the site is published as recent alluvium on the terrace along the Black River, with a possible thin band of littoral sediments further east and finally glacial till near the eastern property boundary. The borings generally corroborated the published information. The site soils are medium to coarse sands with traces of silt. The area where the UST's were located is clearly within recent alluvium, and was likely in the floodplain of the Black River prior to the construction of the North Springfield Flood Control Dam. It is not known how much the site may have been altered to construct the current development. Portions of the site may have been filled.

Published mapping indicates bedrock beneath the site is likely to be the Mount Holly Complex, which includes gneiss, schist and amphibolite with numerous small granite bodies. The contact with the Blue Hill Gneiss is a short distance to the southeast. The age of each of the rock types is Pre Cambrian. No bedrock exposures were observed on and near the site. The depth to bedrock at the site is unknown. Based on data from the municipal well field to the west, the depth to bedrock may likely be in excess of 50'.

Site Hydrogeology

A single set of water level readings was obtained from all five (5) of the groundwater monitoring wells on July 9, 1997. The relative elevations of the wells were also surveyed on that day. Relative locations were established by a tape survey. The depth to the water table ranged from approximately 3.5' in MW-1 to 17.2' in MW-3. Based on this single sounding, the direction of groundwater flow is west towards the Black River. The water table slope across the entire site is steep, on the order of 10%. The site sketch in Appendix D shows the relative groundwater elevations. No attempt was made to represent groundwater contours as the sketch is significantly out of scale.

Potential Receptors

All of the properties in the immediate vicinity of the site are on the municipal water supply system. The Vicinity Map in Appendix A shows some of the features of the water distribution system in the vicinity of the site.

The most significant potential receptors are the Springfield Municipal Well Fields which are located to the west on the opposite side of the Black River from the site. There are three (3) individually identified supplies. The Chapman 1 System, constructed in 1943, consists of thirty (30) 2 1/2" driven wells connected to a 6" header to a pump station. The pump station is identified as 301 on the Vicinity Map in Appendix A. The Chapman 1 System can provide about 0.5 million gallons per day (MGD).

The Gilchrist Meadows System consists of four (4) 30' deep gravel pack wells each with individual pumps. Two of the wells were installed in 1953, and two more added in 1963. The Gilchrist wells are in the general vicinity of the 308 on the Vicinity Map. The Gilchrist Meadows System can provide about 1 MGD.

The newest installation is Chapman 2, a 70' deep gravel pack well installed in 1979, which can provide about 1 MGD. It is identified on the Vicinity Map as location 302.

A 1992 comprehensive water study prepared for the Town of Springfield by Dufresne-Henry included the above information on the well fields. The report also included the figure included

in Appendix F which shows the aquifer protection area (APA) for the well field. The Black River is the dividing line between the APA #1 zone (cross hatch) and the APA #2 zone (dark shading). The subject site is within the APA #2 zone. The combined area of the APA zones is approximately 300 acres. Using the contours shown on the Vicinity Map, we estimate the area of the recharge zone upgradient of the subject site to be about 6 acres. Thus on an area basis, the APA affected by recharge which may pass through the subject site represents about 2% of the total APA.

The 1992 DH report also contains an estimate of the recharge area and yield of the combined Chapman/Gilchrist well field. It was estimated that the tributary area is approximately 33 square miles, and that the estimated yield is as much as 16.5 MGD. It is acknowledged that there is limited site specific data to verify these estimates which are based on regional studies. Using a 33 square mile tributary area, the fraction potentially affected by the subject site is less than 0.02%.

As a condition of the Operating Permit the public supply is sampled annually for volatile organic compounds (VOC's) which include the BTEX compounds. The current Springfield Water and Sewer Superintendent was not aware of any VOC results of concern.

The nearest surface water to the site is the Black River which is within 200' of the former UST locations.

The building on the property has a slab on grade foundation, as does the structure approximately 100' away on the adjacent property to the north. The area over the former UST location has been repaved which will significantly reduce infiltration and the opportunity for vapor migration and direct human contact with any residual contaminated soil.

Monitoring Well Sampling

The two Dufresne-Henry and one of the Provan & Lorber monitoring wells were sampled on July 9, 1997 following the standard protocols which are on file with the HMMD. The sampling was performed by Dufresne-Henry personnel. Three well volumes were purged from the monitoring wells prior to drawing a sample. No odors or sheens were observed in any of the wells. The refrigerated samples were shipped to Eastern Analytical, Inc. of Concord, New

Hampshire on July 9, 1997 via overnight carrier. The samples were analyzed for the VOC's BTEX and MTBE by EPA Method 8020(mod).

Benzene, Toluene, Ethylbenzene, Total Xylenes, were found in the sample from DH -1, and trace concentrations of Benzene, Toluene and Xylenes were found in MW-2. None of the concentrations exceeded current or proposed Vermont Groundwater Enforcement Standards. The laboratory report and field sampling sheets are included in Appendix G.

Following our sampling of the monitoring wells we received the Provan & Lorber report which included analyses of groundwater samples from MW-1, MW-2 and MW-3. The results of these analyses as well as our analyses are summarized in Table 1 below. MW-1 is not included. There were no compounds identified above detection limits in the MW-1 sample.

Table 1
Summary of Analytical Results - Site Investigation

Compound	ES[1] µg/L	ES[2] µg/L	DH-1 µg/L	DW-2 µg/L	MW-2 µg/L	MW-2 (PL)[3] µg/L	MW-3 (PL)[3] µg/L
Benzene	5	5	1	<1	2	<1	<1
Toluene	2,420	1,000	2	<1	1	<1	<1
Ethylbenzene	680	700	14	<1	<1	<1	16
Total Xylenes	400	10,000	36	<1	3	<1	3
Total BTEX			53	<1	6	<1	3
MTBE	N/E	40	<20	<20	<20	<20	<20

ES[1] Current State of Vermont Enforcement Standard
ES[2] Proposed State of Vermont Enforcement Standard
(PL)[3] From Provan & Lorber Site Assessment
N/E Standard Not Established

We attribute the detection of BTEX compounds in our sample from MW-2 to the disturbance and open soil conditions related to the tank removal.

Summary and Recommendations

Residual petroleum contamination in the soil and groundwater was discovered at Soucy Motors during the removal of four (4) underground storage tanks in June of 1997. The tanks had not been used for an estimated 30 years. All soil was backfilled.

Two shallow groundwater monitoring wells were installed at the site in July 1997 to supplement three such wells that were installed in January 1997 as part of a Phase II Environmental Site Assessment. MW-2 has been sampled twice, and the other four wells sampled once. BTEX compounds were detected in DH-1, in one of the samples from MW-2 and in MW-3. All of the concentrations were well below current and proposed Vermont Groundwater Enforcement Standards. The appearance of trace levels of BTEX compounds in the second sample from MW-2 is attributed to the removal of overlying pavement and disturbance of soil and groundwater during the tank removals. The site of the former tanks has since been repaved.

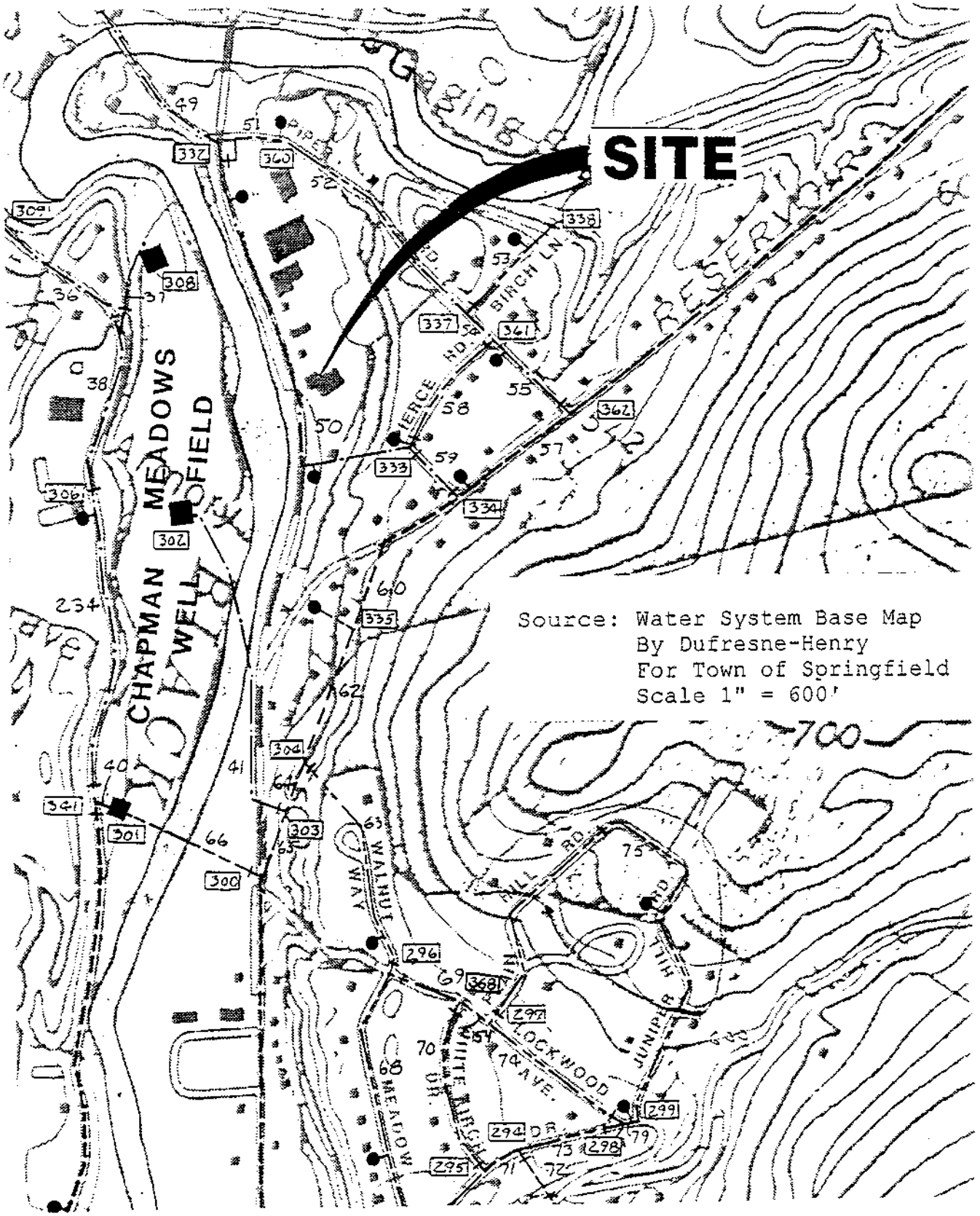
All of the properties in the vicinity have municipal water service. No site or nearby buildings have basements. No other listed sites are likely to affect the subject property.

The site is in the Secondary Aquifer Protection Area (APA) for the Town of Springfield Municipal Water Supply. The Town well field is located in the sand and gravel deposit across the Black River to the west. The area upgradient of the site is less than 2% of the total APA, and may be less than 0.02% of the estimated total recharge area to the municipal supply. The Public Supply is sampled annually for volatile organic compounds, and no analytical results of concern have been disclosed.

Based on these findings, the site does not meet the SMS criteria for corrective actions. We recommend that this site be considered for Sites Management Activity Complete (SMAC) designation.

Appendix A

Vicinity Map



VICINITY MAP

Client No.	4170055	CONTAMINATION ASSESSMENT	
Proj. Mgr.	FDD	FORMER SOUCY MOTORS	
Date	7/97	NORTH SPRINGFIELD, VERMONT	A

Dufresne-Henry Inc.
Precision Park
No. Springfield, Vermont 05150

BRUNING 44-232-45337-13

Appendix B

Tank Closure Assessment

Dufresne-Henry, Inc.
A DVI Company
Precision Park ◊ North Springfield, Vermont 05150-0029 ◊ Tel.: 802 / 886 / 2261 ◊ Fax: 802 / 886 / 2260

June 23, 1997

Ms. Susan Thayer
Vermont Agency of Natural Resources
Department of Environmental Conservation
Waste Management Division
103 South Main Street / West Office
Waterbury, Vermont 05671-0404

Re: Soucy Motors - Springfield
DH 4170055

Dear Ms. Thayer:

Enclosed please find the following information:

1. Expressway Notification Form.
2. U.S.T. Permanent Closure Form.
3. Dufresne-Henry, Inc. File Memo Documenting Site Observations.
4. Site Photographs. (To follow upon arrival)

Two soil samples were obtained from each of the tank beds. These samples produced headspace readings above 2500 ppm. Groundwater was observed in the excavation at a depth of 8.5 feet. All of the contaminated soil was backfilled.

Based on visual and olfactory evidence of contamination present, it is the recommendation of Dufresne-Henry Inc. that further action be taken at this site.

Sincerely,

DUFRESNE-HENRY, INC.

Anna Maria Cozzaglio
Environmental Services Division

AMC/dim
Enclosures
cc: Mr. Doug Gurney - Gurney Brothers - w/o photographs
Mr. Tom Soucy - T and I Corporation

DUFRESNE-HENRY, INC.

MEMO TO: File

FROM: Anna Maria Cozzaglio

DATE: June 23, 1997

SUBJECT: Soucy Motors - North Springfield
DH # 4170055

This report of field activities has been prepared by Dufresne-Henry, Inc. (DH). DH has been contracted by Tom Soucy, the previous owner of Soucy Motors, to provide the engineering services required for underground storage tank closure. Gurney Brothers, of North Springfield was contracted for the excavation of the tanks. MacIntyre Fuels, Inc., of Burlington, performed the cleaning of the tanks.

On Thursday, June 19, 1997, I was at the above referenced location to perform the closure assessment for the removal of one 2000-gallon gasoline tank, one 4000-gallon gasoline tank, and two 3000-gallon gasoline tanks. The weather that day was sunny and 70 degrees. There was light humidity in the morning. The photoionization detector used that day was a Photovac Micro-TIP HL-2000 which uses a 10.6 eV lamp. The Photovac was calibrated on-site prior to use with Isobutylene at 100 ppm.

Upon arrival the site was photographed and a site sketch was prepared. Three fill pipes had been located in the parking lot prior to my arrival. They had reportedly been covered by the pavement. The fourth was located during excavation. Three monitoring wells had been installed previously at the site. Their locations are noted on the site sketch.

Gurney Brothers arrived at 10:30 AM and began excavating.

Tank #1, approximately 42 feet from the building corner, was a 2,000 gallon gasoline tank. A sample taken from the side of the north end of the tank, approximately 1 foot above the base, produced a headspace reading of 0.7 ppm. Another reading taken at the same elevation on the southern end of the tank, produced a headspace reading of 1.5 ppm. Once the tank was removed, a sample was taken from each end of the tank, 1 foot below the base. The sample from the northern end produced a reading of 900 ppm. The sample taken from the southern end produced a reading of 1720 ppm. Water had accumulated at the base of the tank. The excavation was 8 feet deep, with groundwater at approximately 8.5 feet. This tank was in fair condition, with heavy rusting, pitting and scaling. No holes were observed.

After this tank was pulled, I called the State to inform them of the contamination. I spoke with Marc Coleman.

Tank #2, immediately to the east of tank #1, was a 4,000 gallon gasoline tank. A sample taken from the west side of the tank, approximately 2 feet above the base, produced a reading of 2500+ppm. Samples taken from each end of the tank, 1 foot below the base, produced readings of 2500+ ppm. Water had accumulated at the base of the tank. The groundwater was at 8.5 feet. This tank had failed. Several holes were observed in the bottom of the tank. The tank was positioned on its side so that the water/product would not continue to pour out of these holes. Sorbent pads were used in an attempt to absorb the product, which proved to be mostly water.

Tank #3, immediately to the east of tank #2, was a 3,000 gallon gasoline tank. Samples taken from each end of the tank, 1 foot below the base, produced readings of 2500+ ppm. The groundwater was at 8.5 feet. This tank had also failed. One hole was observed at the southern end of the tank. Sorbent pads were used again, indicating that the product was mostly water.

Tank #4, immediately to the east of tank #3, was a 3,000 gallon gasoline tank. A sample taken from the west side of the tank, approximately 2 feet above the base, produced a reading of 2.1 ppm. Another sample taken 4 feet from the north end of the tank, approximately 1 foot above the base produced a reading of 9.8 ppm. Samples taken from each end of the tank, 1 foot below the base, produced readings of 2500+ ppm. Water had accumulated at the base of the tank. The groundwater was at 8.5 feet. This tank was in fair condition, with heavy rusting, pitting and scaling. No holes were observed.

The receptors which have been impacted include the soil and groundwater in the excavation.

MacIntyre Fuels, Inc. was delayed and did not arrive to clean the tanks as of 3:30 pm on Thursday. Gurney Brothers pumped the product out of the tanks into 55 gallon drums. At 8 am, Friday, it was observed that MacIntyre Fuels, Inc. had apparently arrived Thursday evening to clean the tanks. The tanks were reportedly transported to Lebanon Landfill on Friday.

One of the existing monitoring wells is located 33 feet to the south of the southern end of the excavation, between the tanks and the river. Reportedly, the existing monitoring wells had been sampled within the past two months and no contamination had been identified. The soil type consisted of sand and clay layers.

The Black River lies between the Soucy property and the Town of Springfield Water Source. The Gilchrist Meadows Wellfield, consisting of two wells, is approximately 800 feet from the Soucy property. The Chapman Wellfield, consisting of 30 wells, is approximately 1900 feet from Soucy.

State of Vermont

AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
RELAY SERVICE FOR THE HEARING IMPAIRED
1-800-253-0191 TDD>Voice
1-800-253-0195 Voice>TDD

Waste Management Division
103 South Main Street/West Office
Waterbury, Vermont 05671-0404
(802) 241-3888, FAX (802) 241-3296

SITE INVESTIGATION EXPRESSWAY NOTIFICATION FORM

Site Owner: T and I Corporation

Site Name, Town: Savoy Motors, North Springfield

✓ Yes, this site will participate in the Site Investigation Expressway Process.

___ No, this site will not participate in the Site Investigation Expressway Process.

If yes, please complete the checklist below:

✓ Contamination present in soils above action levels ✓ Yes ___ No

If yes, summarize levels:
2500+ ppm at base of tanks and 1' below

✓ Free product observed ___ Yes ✓ No

✓ Groundwater contamination observed ✓ Yes ___ No

✓ Surface water contamination observed ___ Yes ✓ No

✓ Suspected release of hazardous substances ___ Yes ___ No

If yes, please explain:

✓ Affected receptors ___ Yes ✓ No

If yes, please identify receptors including names and addresses of third party receptors:
Shallow groundwater in excavation

Please provide an estimated date of when you expect to submit Site Investigation Report: _____

Owner's Signature/Date: _____ Consultant's Signature/Date: [signature] 6/20/

The SMS has reviewed this expressway notification form and approves / disapproves of this action.

SMS Signature/Date: _____

UNDERGROUND STORAGE TANK PERMANENT CLOSURE FORM

Agency Use Only
Facility ID#
Date of scheduled activity: 6/18/97
Facility Town: SPRINGFIELD
DEC Official: SJ Eval. by

Vermont Agency of Natural Resources
Dept.of Environmental Conservation
Waste Management Division
103 South Main Street, West Building
Waterbury, Vermont 05671-0404
Telephone: (802) 241-3888

Site assessment company: Dufresne-Henry
Site assessor: Anna Cezzaglio
Phone Number of company (or person): (802) 886 2261
Date of UST closure: 6/19/97
Date of site assessment: 6/19/97

Section A. Facility Information:

Name of facility: Sauer Motors — Number of employees:
Street address of facility: Rte 106, North Springfield
Owner of UST(s) to be closed: Tenn I Corporation — Contact(if different than owner):
Mailing address of owner: 518 Spencer Hollow Rd. Springfield VT
Telephone number of owner: 802 885 9180 — Contact telephone #:

Section B. UST Closure Information: (please check one)

Reason for initiating UST closure: __Suspected Leak ___Liability __Replacement ✓Abandoned
Which Portion of UST is to be closed: __Tanks ___Piping ✓Tanks & Piping

USTs (piping is considered a part of UST system) undergoing permanent closure. Include condition of USTs

UST #	Product	Size (gallons)	Tank age	Tank Condition	Piping age	Piping condition
1	Gasoline	2000	35 yrs	Fair	35 yrs	Good
2	Gasoline	4000	35 yrs	Poor/failed	35 yrs	Good
3	Gasoline	3000	35 yrs	Poor/failed	35 yrs	Good
4	Gasoline	3000	35 yrs	Fair	35 yrs	Good

Which tanks, if any, will be closed in-place: USTs#_____ Authorized by:_____ Date: / /
Disposal/destruction of removed UST(s): Location Lebanon Landfill Method Scrap Metal Date: 6/20/97
Amount (gal.) and type of waste generated from USTs: 800 gals product/water
(tank contents are hazardous wastes unless recovered as usable product)
Tank cleaning company (must be trained in confined space entry) MacIntyre Tools, Inc.
Certified hazardous waste hauler: Environmental Product Services Generator ID number:

Section C. Initial site characterization:

Work in this section must be completed by a professional environmental consultant or hydrogeologist with experience in environmental sampling for the presence of hazardous materials. A full report from the consultant must accompany this form.

PID information:

Make: Photo-vac Micro-Tip Model: HL-2000 Calibration information (date, time, gas): 6/19/97 : 10AM ; Iso 2100 ppm

Excavation information: *(some tank pulls require more than one excavation)*

Tank(s) # and Excavation (A,B,C,etc)	Depth (ft)	Excavation size(ft²)	Peak PID reading (ppm)	Depth of Peak (ft)	Avg PID reading	Bedrock Depth (ft)	Groundwater encountered? (y/n) and at depth (ft)	Soil type
#1; A	8'	96	2500+	9'	2500	-	y - 8½'	Sand and Clay
#2; B	8'	234	2500+	9'	2500	-	y - 8½'	Sand and Clay
#3+4; C	8'	345	2500+	9'	2500	-	y - 8½'	Sand and Clay

Locate all readings and samples on site diagram

Number of soil samples collected for laboratory analysis? 0 results due date / /
Have any soils been polyencapsulated on site? Yes___(#yds³___ PID range above zero low ___ - ___ peak) No ✓
Have any soils been transported off site? Yes___list amount (yds³):_____ No ✓
Location transported to:_____ DEC official who approved_____
Amount of soils backfilled(yds³): All PID range above zero low 700 - 2500+ peak
Have limits of contamination been defined? Yes___No ✓
Is there any other known contamination on- site? Yes___No ✓ Comments:

Free Phase product encountered? Yes___thickness_____ No ✓
Groundwater encountered? Yes ✓ depth(ft) 8 No___
Are there existing monitoring wells on-site? Yes ✓ how many: 3 (locate on site diagram) No___
Have new monitoring wells been installed? Yes___ how many:_____(locate on site diagram) No ✓
Have samples been taken from any monitoring wells for lab analysis? Yes__ results due date / / No ✓

Is there a water supply well on site? Yes___(check type: shallow___rock___spring___) No ✓
How many public water supply wells are located within a 0.5 mile radius? 32 min. distance (ft.): 800 *
How many private water supply wells located within a 0.5 mile radius? 0 min distance (ft.):_____ **

* Springfield Service is across the river from the site. Municipal water is supplied through this area. It is assumed that everybody is on it.

Facility ID#_____

Section D: Tanks/Piping Remaining/installed

Regardless of size, include USTs at site as to *status, e.g. "abandoned", "in use", or "to be installed". (Most installations require permits and advance notice to this office.)

UST#	Product	Size(gallons)	Tank age	*Tank status	Piping age	*Piping Status

✓ There are no other tanks at this site.

Section E. Statements of UST closure compliance:
(must have both signatures or site assessment not complete)

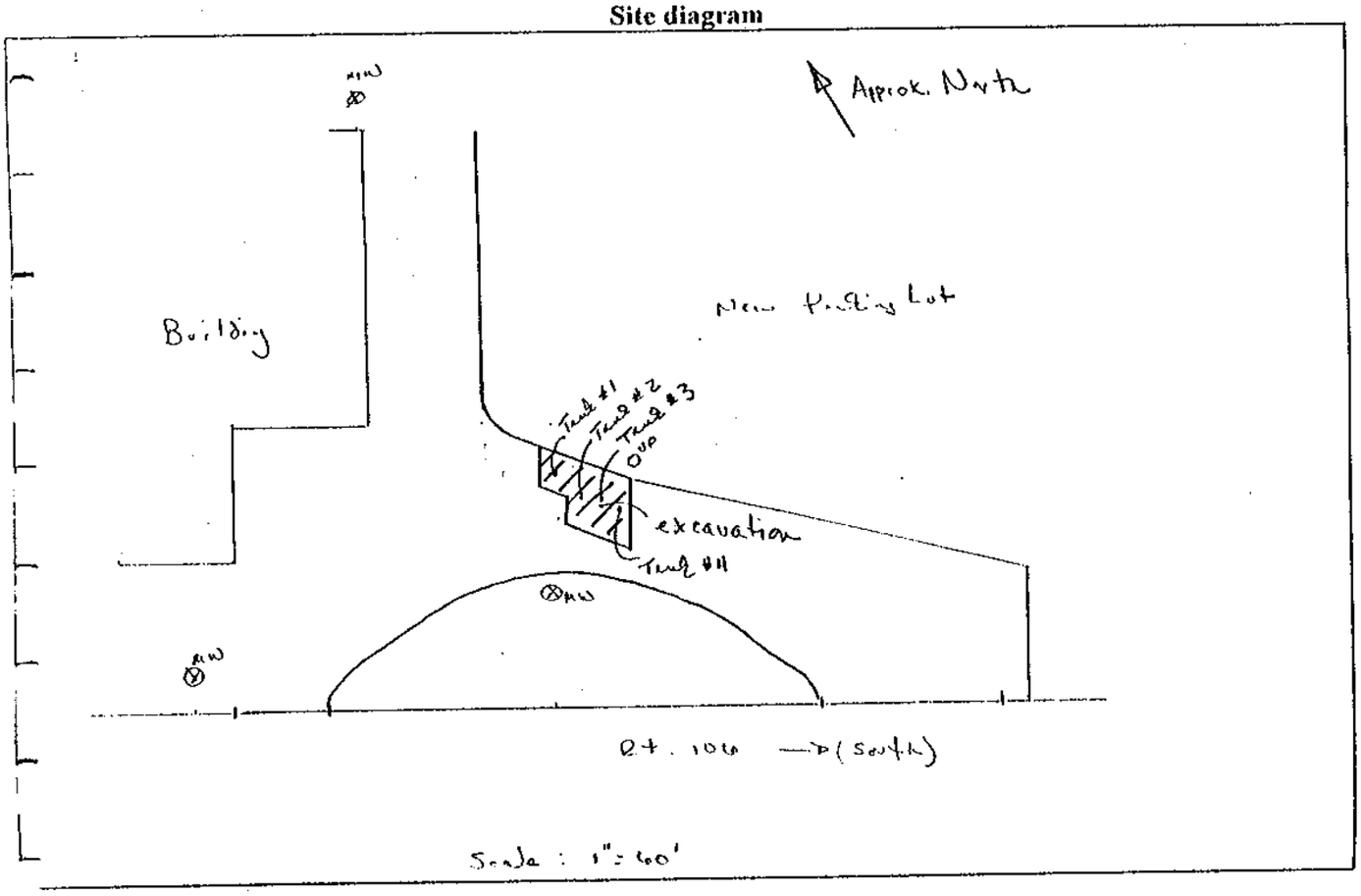
As the party responsible for compliance with the Vermont UST Regulations and related statutes at this facility, I hereby certify that the all of the information provided on this form is true and correct to the best of my knowledge.

_____ Date:_____
Signature of UST owner or owner's authorized representative

As the environmental consultant on site, I hereby certify that the site assessment requirements were performed in accordance with DEC policy and regulations, and that information which I have provided on this form is true and correct to the best of my knowledge.

_____ Date: 12/19/97
Signature of Environmental Consultant

Site diagram



Return form along with complete narrative report and photographs to the Department of Environmental Conservation(DEC), Underground Storage Tank Program within 72 hours of closure.

This Closure Form may only be issued for the facility and the date indicated in the upper left hand corner of page 1. **Changes in the scheduled closure date should be phoned in at least 48 hours in advance.** Both the yellow and white copies of this form must be returned to the address on the top of page 1 of this form; the pink copy should be retained by the UST owner. A written report from an environmental consultant covering all aspects of closure and site assessment, complete with photographs and any other relevant data, must accompany this form. All procedures must be conducted by qualified personnel, to include training required by 29 CFR 1910.120. Documentation of all methods and materials used must be adequate. All work must be performed in compliance with DEC policy "UST Closure and Site Assessment Requirements" as well as all applicable statues, regulations, and additional policies. The DEC may reject inadequate closure forms and reports.

Appendix C

Health and Safety Plan

TABLE OF CONTENTS

Description	Page

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

HEALTH AND SAFETY PLAN FOR INITIAL SITE INVESTIGATION FORMER SOUCY MOTORS SPRINGFIELD, VERMONT

This Health and Safety Plan applies only to Dufresne-Henry, Inc. employees.

PROPOSED ON-SITE ACTIVITIES:

Installation of two (2) monitoring wells, sampling of the monitoring wells, and decontamination.

PROPOSED DATE(S) OF WORK: Wells: July 3, 1997
Sampling: Week of July 7, 1997

ANTICIPATED WEATHER CONDITIONS: temperatures in the 60's - 80's, possible rain.

PROPOSED SITE INVESTIGATION TEAM:

Personnel	Responsibilities
F. David Deane	Project Manager
Bruce Cox	Site Safety Officer
Bruce Cox/Oscar Garcia	Field Team Leader (Monitoring Wells/Sampling)
	Site Representative
	ANR Representative

All Dufresne-Henry, Inc. personnel arriving or departing the Site should check in and out with the Site Safety Officer. All Dufresne-Henry activities on-Site must be cleared through the Field Team Leader or Project Manager.

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

Background Information

Site Status: _X_ Active ___ Inactive ___ Unknown

Site Description (Topography, on-site structures, vegetation, surrounding population, contaminated areas (if known)...Attach site plan)

The former Soucy Motors is located on River Road in North Springfield, Vermont. The site was most recently used as an automobile dealership, and is currently being renovated for continued use as a dealership. The site is generally flat. The property is served by the municipal water and wastewater systems. There are overhead power lines. Stormwater culverts are likely, but not confirmed. The Black River is located on the opposite side of River Road.

The four (4) known UST's on the site have been removed. Evidence of soil and groundwater contamination was found. No other potentially hazardous materials have bee identified at this time.

Site History:

The history of the site is not known. The property has apparently been used as a gasoline station and/or automobile dealership for many years.

Monitoring or Sampling Data From Previous Site work:

A UST Closure Assessment was performed in June 1997. Four (4) gasoline UST's were removed. Evidence of soils and groundwater contamination was observed. No other monitoring or sampling data is known to exist.

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

HAZARD REFERENCE

Waste Types:

_X_ Liquid _X_ Solid (soil) ___ Sludge _X_ Vapor ___ Unknown

Waste Characteristics:

___ Corrosive _X_ Ignitable ___ Radioactive

_X_ Volatile ___ Toxic ___ Reactive

___ Unknown ___ Other ___ Persistent

Specific Substances of Greatest Concern (if known): gasoline, other petroleum products

Hazard Evaluation:

Task: Mon. Well Install. _X_ Low ___ Medium ___ High

Identification of Hazards: gasoline, other petroleum products

---

Task: Decontamination _X_ Low ___ Medium ___ High

Identification of Hazards: gasoline, other petroleum products

---

Task: Sampling _X_ Low ___ Medium ___ High

Identification of Hazards: gasoline, diesel fuel, pesticides

Task: ___ Low ___ Medium ___ High

Identification of Hazards:

Other Physical Hazards: (weather, heavy equipment, site structures...)

Drill rig, weather, possible construction equipment.

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

Hazard Assessment:

OVERALL HAZARD: ___ Serious ___ Moderate _X_ Low ___ Unknown

On-Site Control

Site control is necessary to minimize potential exposure of workers to hazardous waste/materials, protect the public from the Site's chemical and physical hazards, and to facilitate work activity. The procedures to be followed involve the establishment of Site work zones, Site security, and safe work practices.

The on-Site staging area and support zone has been established at:

The driveway in front of the former UST's.

The personal contamination reduction zone (decon area) has been established at:

The driveway in front of the former UST's.

During the intrusive work, the exclusion area will be defined as follows:

The drill rig and a 15 foot radius around the borehole.

The decontamination of sampling and/or heavy equipment will be conducted:

The driveway in front of the former UST's.

These sub-regions of on-Site control have been established in order to reduce the potential cross contamination and proliferation of contamination by potentially contaminated equipment and personal protective equipment.

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

SITE ACTIVITIES

Required Personal Protective Equipment (PPE)

Task	Entry Level of Protection	Monitoring Equipment	Upgrade/Downgrade Contingency
Well Install.	D	Photovac HL-2000 Eplosimeter 0_2 meter H_2S meter	Upgrade to Level C with PID readings over 10 ppm for 5 minutes in breathing space.
Decon.	D	"	"
Sampling	D	"	"

Note: Breathing space PID readings of 50 ppm, explosimeter readings over 25% of the LEL, O_2 deficiency or enrichment, or H_2S readings will result in shutting down the job and consulting with State officials and the client.

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

Specific protective equipment for each level of protection is as follows:

Level C: Full Face Respirator w/appropriate cartridge (Willson T45)
Chemically Resistant Suit (Tyvek®)
Outer Rubber Slush Boots
Outer Chemically Resistant Gloves
Surgical Gloves
Hard Hat
Steel Toe/Shank Work Boots

Modified Level D: Chemically Resistant Suit (Tyvek®)
Outer Rubber Slush Boots
Outer Chemically Resistant Gloves
Surgical Gloves
Hard Hat
Steel Toe/Shank Work Boots
Safety Glasses or Face Shield

Level D: Work Clothes
Steel Toe/Shank Work Boots
Surgical Gloves
Hard Hat

Rationale for change in level of protection:

Upgrade to Level C with PID readings of 10 ppm or more for 5 minutes in the breathing space. PID readings over 50 ppm in the breathing space, explosimeter readings of over 25% of the LEL, O_2 deficiency or enrichment, or H_2S readings will result in shutting down the job and consulting with State officials and the client.

NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE SITE SAFETY OFFICER OR PROJECT MANAGER.

Monitoring Procedures

Site Monitoring Equipment:

_X_ Photovac MicroTIP (Model HL-2000, 10.6 eV lamp)
_X_ Explosimeter
___ Draeger Tube & Pump
_X_ 0_2 Meter
___ Other: H_2S meter

Methods and Frequency of Monitoring:

Air space and soil samples: Photovac MicroTIP HL-2000.
Air space: explosimeter/O_2 meter/H_2S meter.

Frequency: Soil samples; as obtained.
Air; not to exceed every 15 minutes.

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

Decontamination and Disposal

Personnel Decontamination Procedure:

_X_ Level C: Slush boot and glove wash, slush boot and glove rinse, tape removal, outer glove removal, (cartridge change), slush boot removal, suit removal, inner glove removal.

_X_ Modified Level D: Slush boot and glove wash, slush boot and glove rinse, slush boot removal, suit removal, glove removal.

Equipment Decontamination:

The drill rig and tools will be decontaminated by steam cleaning prior to the start of work and between borings. The use of clean augers (not previously used on the job) will be permitted with washing of the bit in ALCONOX. All decontamination will be done on-site. Routine washing of split spoon samplers, etc will use water obtained at the site. Disposal of spent cleaning liquid will be on site.

Disposal Procedure for Investigation-Derived Materials:
(decon waste, disposables)

All decon waste and disposables will remain on-site.

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

SITE OPERATING PROCEDURES/SAFETY GUIDELINES

** Always observe the buddy system. Never enter or exit site alone, and never work alone in an isolated area. Never wander off by yourself.

** Always maintain a line-of-sight.

** Practice contamination avoidance. Never sit down or kneel, never lay equipment on the ground, avoid obvious sources of contamination such as puddles, and avoid unnecessary contact with on-site objects

** No eating, drinking, or smoking outside the designated "clean" zone.

** In the event PPE is ripped or torn, work shall stop and PPE shall be removed and replaced as soon as possible.

** Be alert to any unusual changes in your own condition; never ignore warning signs. Notify Health and Safety Coordinator as to suspected exposures or accidents.

** A vehicle will be readily available exclusively for emergency use. All personnel going on-site shall be familiar with the most direct route to the nearest hospital.

** In the event of direct skin contact, the affected area shall be washed immediately with soap and water.

** Copies of the Health and Safety Plan shall be readily accessible at the command post.

** Note wind direction. Personnel shall remain upwind whenever possible during on-site activities.

** Never climb over or under refuse or obstacles. Use safety harness/safety lines when sampling lagoons, stream beds, and ravines with steep banks.

** Hands and face must be thoroughly washed before eating, drinking, etc.

** Any modifications to this safety plan MUST be approved by the Site Safety Officer.

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

Special Procedures:
Confined Space Entry

_X_ No attempt will be made to enter abandoned buildings, manholes, tanks, or any other confined areas.

___ Other:

Personnel Monitoring: (If applicable: Heat stress, frostbite, air sampling of individual breathing zone)

Monitoring of individual breathing space will be monitored by a Photovac MicroTIP HL-2000, explosimeter, and O_2 meter as outlined in monitoring procedures. Monitoring of weather related hazards will be dictated by existing conditions.

EMERGENCY SITUATIONS

The following standard emergency procedures will be used by Dufresne-Henry on-site personnel. The Site Safety Officer (SSO) shall be notified of any on-site emergencies and be responsible for ensuring that the appropriate procedures are followed.

Personnel Injury to Dufresne-Henry Employees in the Exclusion Zone

Upon notification of an injury to a Dufresne-Henry employee in the exclusion zone, a rescue team will enter the zone (if required) to remove the injured person to the hotline. The SSO and Project Manager should evaluate the nature of the injury, and the affected person should be decontaminated to the extent possible prior to movement to the support zone. The SSO shall arrange for appropriate first aid, and contact should be made for an ambulance and with the designated medical facility (if required). No Dufresne-Henry personnel shall re-enter the exclusion zone until the cause of the injury or symptoms are determined.

Personnel Injury to Dufresne-Henry Employees in the Support Zone

Upon notification of an injury to a Dufresne-Henry employee in the support zone, the Project Manager and SSO will assess the nature of the injury. If the cause of the injury or loss of the injured person does not affect the performance of site personnel, operations may continue, with the on-site Field Team Leader initiating the appropriate first aid and necessary follow-up as stated above. If the injury increases the risk to others, all Dufresne-Henry personnel shall move to the decon line for further instructions. Dufresne-Henry activities on-site will cease until the added risk is removed or minimized.

Fire/Explosion

Upon notification of a fire or explosion on-site, all Dufresne-Henry personnel will assemble at the decon line. The fire department shall be alerted and all Dufresne-Henry personnel moved to a safe distance from the involved area.

Personal Protective Equipment Failure

If any Dufresne-Henry site personnel experience a failure or alteration of protective equipment that effects the protection factor, that person and his/her buddy shall immediately leave the exclusion zone. Re-entry shall not be permitted until the equipment has been repaired or replaced.

Other Equipment Failure

If any other equipment on-site fails to operate properly, the Project Manager and SSO shall be notified and then determine the effect of this failure on continuing operations on-site. If the failure affects the safety of on-site Dufresne-Henry personnel or prevents the completion of the tasks, all Dufresne-Henry personnel shall leave the exclusion zone until the situation is evaluated and appropriate actions taken.

In all situations, when an on-site emergency results in evacuation of the exclusion zone, Dufresne-Henry personnel shall not re-enter until:

1. The conditions resulting in the emergency have been corrected.

2. The hazards have been reassessed.

3. The Site Safety Plan has been reviewed.

4. Dufresne-Henry personnel have been briefed on any changes in the Site Safety Plan.

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

EMERGENCY INFORMATION

AMBULANCE:	Springfield	Phone:	(802) 885 - 4545
HOSPITAL:	Springfield Hospital 25 Ridgewood Road Springfield, VT	Phone:	(802) 885 - 2151
POLICE:	Springfield	Phone:	(802) 885 - 2113
FIRE DEPARTMENT:	Springfield	Phone:	(802) 885 - 4545
POISON CENTER:		Phone:	(603) 650 - 5000
ANR INCIDENT RESPONSE:	Office	Phone:	(802) 241 - 3888

CORPORATE:

Dufresne-Henry N. Springfield, VT Phone: (802) 886 - 2261

Project Manager: F. David Deane

NEAREST PHONE: on site

LOCATION OF ON-SITE FIRST AID KIT: Boring contractors vehicle

EMERGENCY VEHICLE:

PROJECT: T & I CORP SITE INVESTIGATION
JOB NO.: 4170055

The following individuals have read this safety document and are familiar with its contents, site conditions, and on-site safety procedures (please sign below):

Name	Company
Bruce Cox Bruce Cox 7/3/97	Dufresne-Henry, Inc.
Oscar Garcia	Dufresne-Henry, Inc.
Michael Hitchcock	M & W Soils Engineering, Inc.
	M & W Soils Engineering, Inc.

Copies of this SSP have been given to:

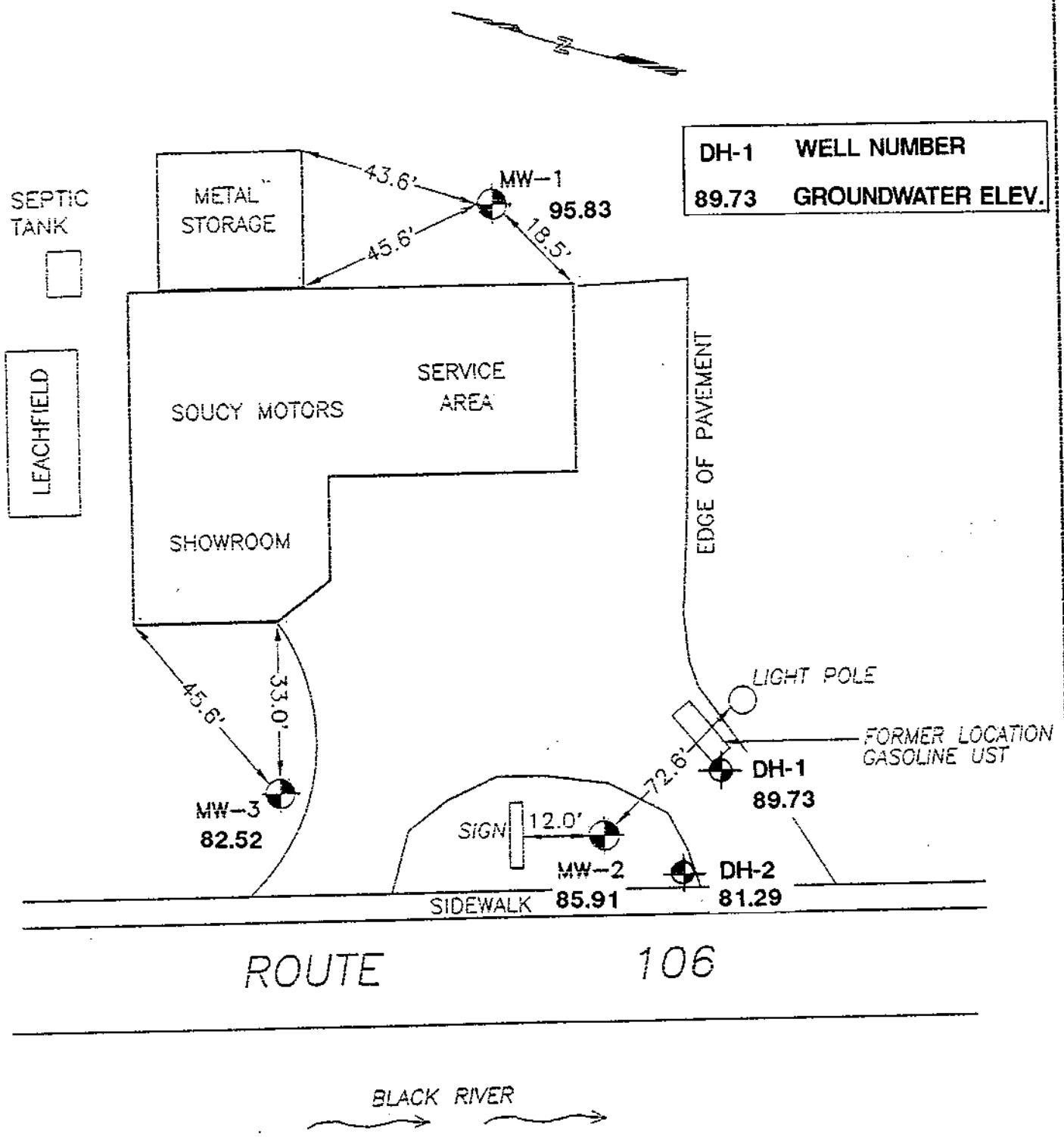
Approval Signatures:

PM _____

Div. Dir. _____

Appendix D

Site Sketch



NO SCALE

Provan & Lorber, Inc.
ENGINEERS AND PLANNERS
Post Office Box 167
Littleton, NH 03561
(603) 444-6301

SOUCY MOTORS
SPRINGFIELD, VERMONT

FIGURE 2
SITE SKETCH

M & W Soils Engineering Inc.

Main St. Charlestown, NH 03603

SHEET 1 OF 1
DATE 7/3/97
HOLE NO. DH-1
LINE & STA.
OFFSET

TO DUFRESNE-HENRY, INC.
ADDRESS NORTH SPRINGFIELD, VT
PROJECT NAME T. I. CORP.
LOCATION NORTH SPRINGFIELD, VT
REPORT SENT TO BRUCE COX
PROJ. NO.
SAMPLES RETAINED BY DUFRESNE-HENRY, INC.
OUR JOB NO. 7105-97

GROUND WATER OBSERVATIONS
AT 8'5" AT 1/2 HOURS
AT AT HOURS

	CASING	SAMPLER	CORE BAR
Type	HSA	SS	
Size I. D.	4 1/4"	1 1/2"	BIT
Hammer Wt.		140#	
Hammer Fall		30"	

SURFACE ELEV.
DATE STARTED 7/3/97
DATE COMPL. 7/3/97
BORING FORMAN M.H. & T.M.
INSPECTOR B. COX
SOILS ENGR.

LOCATION OF BORING 10' SOUTH OF OLD TANK EXCAVATION , IN TAR PARKING LOT

Depth	SAMPLE DEPTHS FROM-TO	TYPE OF SAMPLE	Blows per 6" on sampler		MOISTURE DENSITY OR CONSIST.	STRATA CHANGE ELEV.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, cond., hardness, Drilling time, seams and ect.	SAMPLE NO.	PEN	REC
						3 5/8"	ASPHALT			
					DENSE	4'	BROWN FINE GRAVEL WITH MEDIUM SAND - TRACE OF SILT	1	24"	17"
5'	5' - 7'	SS	6	25	DENSE - MOIST		BROWN MEDIUM GRAVEL WITH SOME COARSE SAND TRACE OF SILT			
			24	27		9'		2	24"	12"
10'	10' - 12'	SS	18	22	DENSE - WET		BROWN COARSE SAND WITH SOME FINE GRAVEL - TRACE OF SILT (SLIGHT ODOR OF GASOLINE)	3	24"	20"
			26	29		12'				
	12' - 14'	SS	43	13			BROWN MEDIUM SAND AND SILT - TRACE OF FINE GRAVEL	4	24"	24"
			8	13						
	14' - 16'	SS	11	13	MED. DENSE TO LOOSE - WET			5	24"	22"
15'			7	16						
	16' - 18'	SS	3	3						
			8	9		18'				
20'							NO BEDROCK TO DEPTH SET 2" PVC WELL AT 15' TOP OF WELL AT 5' BOTTOM OF WELL AT 15' SAND TO 4'2" BENTONITE TO 3'7" MATERIALS USED: 10' OF 2" PVC 0.010" WELL SCREEN 5' OF 2" PVC SOLID 25# OF BENTONITE CHIPS 150# OF SAND 40# OF CEMENT MIX 1 2" EXPANSION CAP 1 2" PVC CAP 1 6" CAST IRON MANHOLE			

GROUND SURFACE TO 18' USED HSA CASING THEN DROVE SS 24"

Sample Type
D-Dry C-Cored W-Washed
UP-Unfinished Piston
TP-Test Pit A-Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb. wt. x 30"-fall an 2" O.D. Sampler
Cohesionless Density
0-10 Loose
10-30 Med. Dense
30-50 Dense
50+ Very Dense

Cohensive Consistancy
0-4 Soft 30 + Hard
4-8 M/Stiff
8-15 Stiff
15-30 V-Stiff

summary
EARTH BORING 18'
ROCK CORING
SAMPLES 5
HOLE NO. DH-1

M & W Soils Engineering Inc.
Main St. Charlestown, NH 03603

SHEET 1 OF 1
DATE 7/3/97
HOLE NO. DH-2
LINE & STA.
OFFSET

TO DUFRESNE-HENRY, INC. ADDRESS NORTH SPRINGFIELD, VT
PROJECT NAME T. I. CORP. LOCATION NORTH SPRINGFIELD, VT
REPORT SENT TO BRUCE COX PROJ. NO.
SAMPLES RETAINED BY DUFRESNE-HENRY, INC. OUR JOB NO. 7105-97

GROUND WATER OBSERVATIONS
AT 14'9" AT IMMEDIATELY HOURS
AT _____ AT _____ HOURS

	CASING	SAMPLER	CORE BAR
Type	HSA	SS	
Size I. D.	4 1/4"	1 1/2"	
Hammer Wt.		140#	BIT
Hammer Fall		30"	

SURFACE ELEV.
DATE STARTED 7/3/97
DATE COMPL. 7/3/97
BORING FORMAN M.H. & T.M.
INSPECTOR B. COX
SOILS ENGR.

LOCATION OF BORING 52' SOUTH OF DH-1, IN GRAVEL ISLAND NEAR MAIN HIGHWAY

Depth	SAMPLE DEPTHS FROM-TO	TYPE OF SAMPLE	Blows per 6" on sampler		MOISTURE DENSITY OR CONSIST.	STRATA CHANGE ELEV.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, cond., hardness, Drilling time, seams and ect.	SAMPLE NO.	PEN	REC
						4"	GREY SHUR-PAK			
					MED. DENSE MOIST		LIGHT GREY SILTY FINE SAND			
5'	5' - 7'	SS	4	4				1	24"	24"
			5	8		6'9"				
					MED. DENSE MOIST	9'3"	BROWN MEDIUM GRAVEL WITH SOME COARSE SAND TRACE OF SILT			
10'	10' - 12'	SS	13	9				2	24"	21"
			8	9						
	12' - 14'	SS	11	11	MED. DENSE MOIST		BROWN COARSE SAND - TRACE OF SILT	3	24"	19"
			9	11						
	14' - 16'	SS	10	13		14'6"		4	24"	16"
15'			11	10						
					MED. DENSE WET		RUST COLOR OXIDIZED LAYERS OF COARSE SAND - TRACE OF FINE GRAVEL			
20'	20' - 22'	SS	4	4				5	24"	21"
			4	5		22'				
25'							NO BEDROCK TO DEPTH			
							SET 2" PVC WELL AT 20' TOP OF WELL AT 10' BOTTOM OF WELL AT 20' SAND TO 7' BENTONITE TO 6'2"			
							MATERIALS USED: 10' OF 2" PVC 0.010" WELL SCREEN 10' OF 2" PVC SOLID 25# OF BENTONITE CHIPS 250# OF SAND 40# OF CEMENT MIX 1 2" EXPANSION CAP 1 2" PVC CAP 1 6" CAST IRON MANHOLE			

GROUND SURFACE TO 22' USED HSA CASING THEN DROVE SS 24"

Sample Type
D-Dry C-Cored W-Washed
UP-Unfinished Piston
TP-Test Pit A-Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb. wt. x 30"-fall an 2" O.D. Sampler

Cohesionless Density
0-10 Loose
10-30 Med. Dense
30-50 Dense
50+ Very Dense

Cohensive Consistancy
0-4 Soft 30 + Hard
4-8 M/Stiff
8-15 Stiff
15-30 V-Stiff

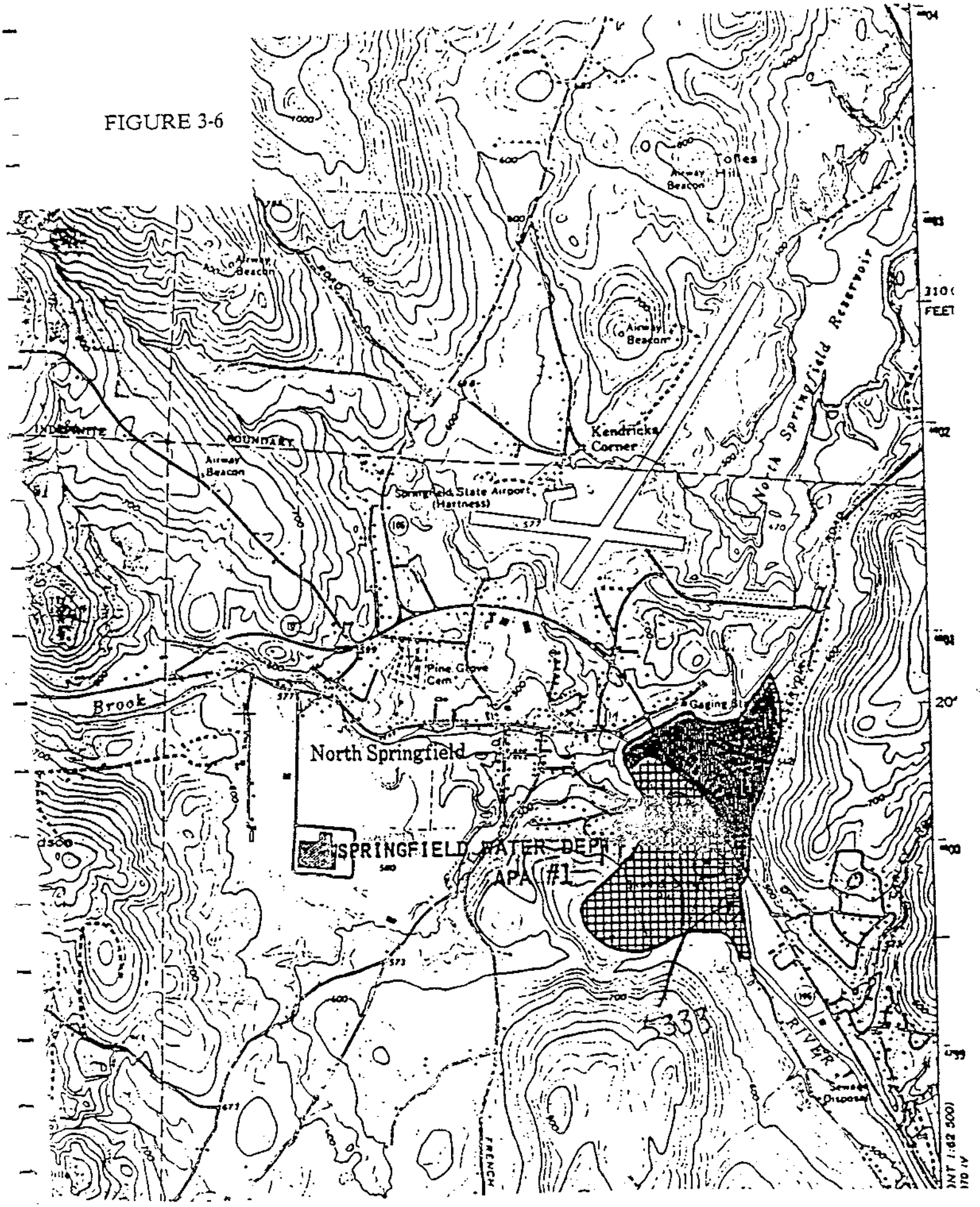
summary
EARTH BORING 22'
ROCK CORING
SAMPLES 5
HOLE NO. DH-2

Appendix F

Springfield Supply

Aquifer Protection Area

FIGURE 3-6


Tobies
Airway Beacon
Airway Beacon
Airway Beacon
North Springfield Reservoir
Kendricks Corner
BOUNDARY
Springfield State Airport (Hartness)
Pine Grove Cem
Brook
North Springfield
SPRINGFIELD WATER DEPT
APA #1
RIVER
FRENCH
FEET

Appendix G

Laboratory Analytical Reports

and Field Sheets

eastern analytical

professional laboratory services

RECEIVED
JUL 21 1997

Oscar Garcia
Dufresne-Henry
Precision Park
N. Springfield, VT 05150

Subject: Laboratory Report

Eastern Analytical, Inc. ID:	9303 DUFVT
Client Identification:	4170055 Sovey Motors
Date Received:	07/10/97
Sample Quantity/Type:	3 aqueous

Dear Mr. Garcia:

Enclosed please find the laboratory report for the above identified project. All analyses were subjected to rigorous quality control measures to assure data accuracy. Unless otherwise stated, all holding times, preservation techniques, container types and sample condition adhered to EPA protocol.

The following standard abbreviations and conventions apply throughout all Eastern Analytical, Inc. reports:

- < = "less than" followed by the detection limit
- TNR = Testing Not Requested
- ND = None Detected, no established detection limit
- BRL = Below Reporting Limits

If you have any questions regarding the results contained within, please feel free to directly contact me, the department supervisor, or the analytical chemist who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Will Brunkhorst (su)
Will Brunkhorst, President

7/17/97
Date

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 9303

Client: Dufresne-Henry

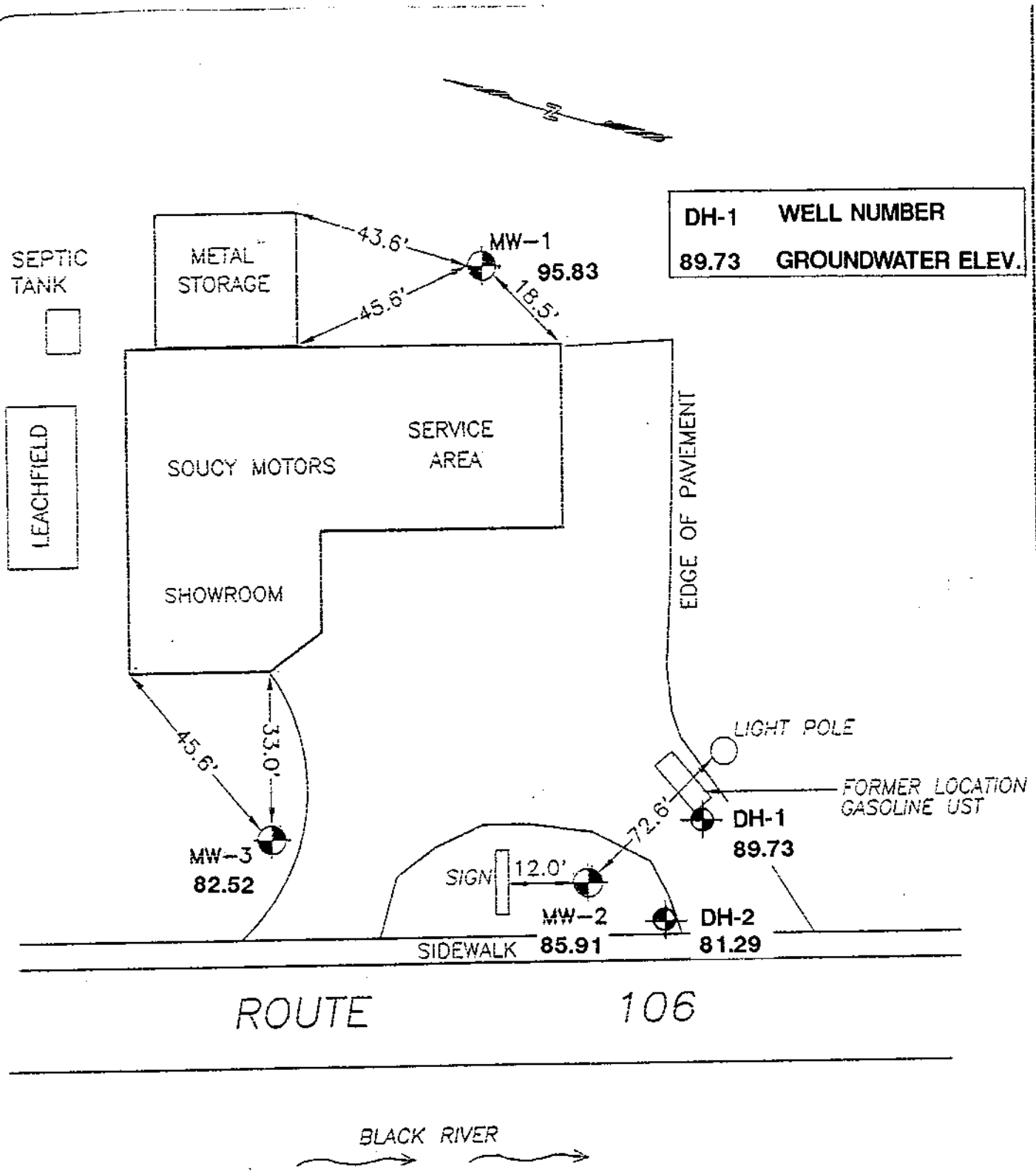
Client Designation: **4170055 Sovey Motors**

Volatile Organic Compounds

Sample ID:	DH-1	DH-2	MW-2
Matrix:	Aqueous	Aqueous	Aqueous
Date Received:	7/10/97	7/10/97	7/10/97
Units:	µg/L	µg/L	µg/L
Date of Analysis:	7/15/97	7/15/97	7/15/97
Analyst:	TML	TML	TML
Method:	*8020(mod)	*8020(mod)	*8020(mod)
MTBE	< 20	< 20	< 20
Benzene	**1**	< 1	**2**
Toluene	**2**	< 1	**1**
Ethylbenzene	**14**	< 1	< 1
m,p-Xylene	**21**	< 1	< 1
o-Xylene	**15**	< 1	**3**

*8020(mod): MTBE included in compound calibrations.

Approved by: Clifford Chase, Volatile Organics Supervisor _____



NO SCALE

Provan & Lorber, Inc.
ENGINEERS AND PLANNERS
Post Office Box 167
Littleton, NH 03561
(603) 444-6301

SOUCY MOTORS
SPRINGFIELD, VERMONT

FIGURE 2
SITE SKETCH

Appendix E

Boring Logs

M & W Soils Engineering Inc.
Main St. Charlestown, NH 03603

SHEET 1 OF 1
DATE 7/3/97
HOLE NO. DH-1
LINE & STA.
OFFSET

TO DUFRESNE-HENRY, INC. ADDRESS NORTH SPRINGFIELD, VT
PROJECT NAME T. I. CORP. LOCATION NORTH SPRINGFIELD, VT
REPORT SENT TO BRUCE COX PROJ. NO.
SAMPLES RETAINED BY DUFRESNE-HENRY, INC. OUR JOB NO. 7105-97

GROUND WATER OBSERVATIONS
AT 8'5" AT 1/2 HOURS
AT AT HOURS

	CASING	SAMPLER	CORE BAR.
Type	HSA	SS	
Size I. D.	4 1/4"	1 1/2"	
Hammer Wt.		140#	BIT
Hammer Fall		30"	

SURFACE ELEV.
DATE STARTED 7/3/97
DATE COMPL. 7/3/97
BORING FORMAN M.H. & T.M.
INSPECTOR B. COX
SOILS ENGR.

LOCATION OF BORING 10' SOUTH OF OLD TANK EXCAVATION , IN TAR PARKING LOT

Depth	SAMPLE DEPTHS FROM-TO	TYPE OF SAMPLE	Blows per 6" on sampler		MOISTURE DENSITY OR CONSIST.	STRATA CHANGE ELEV.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, cond., hardness, Drilling time, seams and ect.	SAMPLE NO.	PEN	REC
						3 5/8"	ASPHALT			
					DENSE	4'	BROWN FINE GRAVEL WITH MEDIUM SAND - TRACE OF SILT			
								1	24"	17"
5'	5' - 7'	SS	6	25	DENSE - MOIST		BROWN MEDIUM GRAVEL WITH SOME COARSE SAND TRACE OF SILT			
			24	27						
						9'		2	24"	12"
10'	10' - 12'	SS	18	22						
			26	29	DENSE - WET		BROWN COARSE SAND WITH SOME FINE GRAVEL - TRACE OF SILT (SLIGHT ODOR OF GASOLINE)	3	24"	20"
	12' - 14'	SS	43	13		12'				
			8	13			BROWN MEDIUM SAND AND SILT - TRACE OF FINE GRAVEL	4	24"	24"
	14' - 16'	SS	11	13	MED. DENSE TO					
			7	16	LOOSE - WET			5	24"	22"
15'	16' - 18'	SS	3	3						
			8	9		18'				
							NO BEDROCK TO DEPTH			
20'							SET 2" PVC WELL AT 15' TOP OF WELL AT 5' BOTTOM OF WELL AT 15' SAND TO 4'2" BENTONITE TO 3'7"			
							MATERIALS USED: 10' OF 2" PVC 0.010" WELL SCREEN 5' OF 2" PVC SOLID 25# OF BENTONITE CHIPS 150# OF SAND 40# OF CEMENT MIX 1 2" EXPANSION CAP 1 2" PVC CAP 1 6" CAST IRON MANHOLE			

GROUND SURFACE TO 18' USED HSA CASING THEN DROVE SS 24"

Sample Type
D-Dry C-Cored W-Washed
UP-Unfinished Piston
TP-Test Pit A-Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb. wt. x 30"-fall an 2" O.D. Sampler

Cohesionless Density
0-10 Loose
10-30 Med. Dense
30-50 Dense
50+ Very Dense

Cohensive Consistancy
0-4 Soft 30 + Hard
4-8 M/Stiff
8-15 Stiff
15-30 V-Stiff

summary
EARTH BORING 18'
ROCK CORING
SAMPLES 5

HOLE NO. DH-1

M & W Soils Engineering Inc.
Main St. Charlestown, NH 03603

SHEET 1 OF 1
DATE 7/3/97
HOLE NO. DH-2
LINE & STA.
OFFSET

TO DUFRESNE-HENRY, INC.
PROJECT NAME T. I. CORP.
REPORT SENT TO BRUCE COX
SAMPLES RETAINED BY DUFRESNE-HENRY, INC.
ADDRESS NORTH SPRINGFIELD, VT
LOCATION NORTH SPRINGFIELD, VT
PROJ. NO.
OUR JOB NO. 7105-97

GROUND WATER OBSERVATIONS
AT 14'9" AT IMMEDIATELY HOURS
AT _____ AT _____ HOURS

	CASING	SAMPLER	CORE BAR.
Type	HSA	SS	
Size I. D.	4 1/4"	1 1/2"	
Hammer Wt.		140#	BIT
Hammer Fall		30"	

SURFACE ELEV.
DATE STARTED 7/3/97
DATE COMPL. 7/3/97
BORING FORMAN M.H. & T.M.
INSPECTOR B. COX
SOILS ENGR.

LOCATION OF BORING 52' SOUTH OF DH-1, IN GRAVEL ISLAND NEAR MAIN HIGHWAY

Depth	SAMPLE DEPTHS FROM-TO	TYPE OF SAMPLE	Blows per 6" on sampler		MOISTURE DENSITY OR CONSIST.	STRATA CHANGE ELEV.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, cond., hardness, Drilling time, seams and ect	SAMPLE NO.	PEN	REC
						4"	GREY SHUR-PAK			
					MED. DENSE MOIST		LIGHT GREY SILTY FINE SAND			
5'	5' - 7'	SS	4	4				1	24"	24"
			5	8		6'9"				
					MED. DENSE MOIST		BROWN MEDIUM GRAVEL WITH SOME COARSE SAND TRACE OF SILT			
10'	10' - 12'	SS	13	9		9'3"		2	24"	21"
			8	9						
	12' - 14'	SS	11	11	MED. DENSE MOIST		BROWN COARSE SAND - TRACE OF SILT	3	24"	19"
			9	11						
	14' - 16'	SS	10	13		14'6"		4	24"	16"
15'			11	10						
					MED. DENSE WET		RUST COLOR OXIDIZED LAYERS OF COARSE SAND - TRACE OF FINE GRAVEL			
20'	20' - 22'	SS	4	4				5	24"	21"
			4	5		22'				
25'							NO BEDROCK TO DEPTH SET 2" PVC WELL AT 20' TOP OF WELL AT 10' BOTTOM OF WELL AT 20' SAND TO 7' BENTONITE TO 6'2" MATERIALS USED: 10' OF 2" PVC 0.010" WELL SCREEN 10' OF 2" PVC SOLID 25# OF BENTONITE CHIPS 250# OF SAND 40# OF CEMENT MIX 1 2" EXPANSION CAP 1 2" PVC CAP 1 6" CAST IRON MANHOLE			

GROUND SURFACE TO 22' USED HSA CASING THEN DROVE SS 24"

Sample Type
D-Dry C-Cored W-Washed
UP-Unfinished Piston
TP-Test Pit A-Auger V-Vane Test
UT-Undisturbed Thinwall

Proportions Used
trace 0 to 10%
little 10 to 20%
some 20 to 35%
and 35 to 50%

140 lb. wt. x 30"-fall an 2" O.D. Sampler
Cohesionless Density
0-10 Loose
10-30 Med. Dense
30-50 Dense
50+ Very Dense

Cohensive Consistancy
0-4 Soft 30 + Hard
4-8 M/Stiff
8-15 Stiff
15-30 V-Stiff

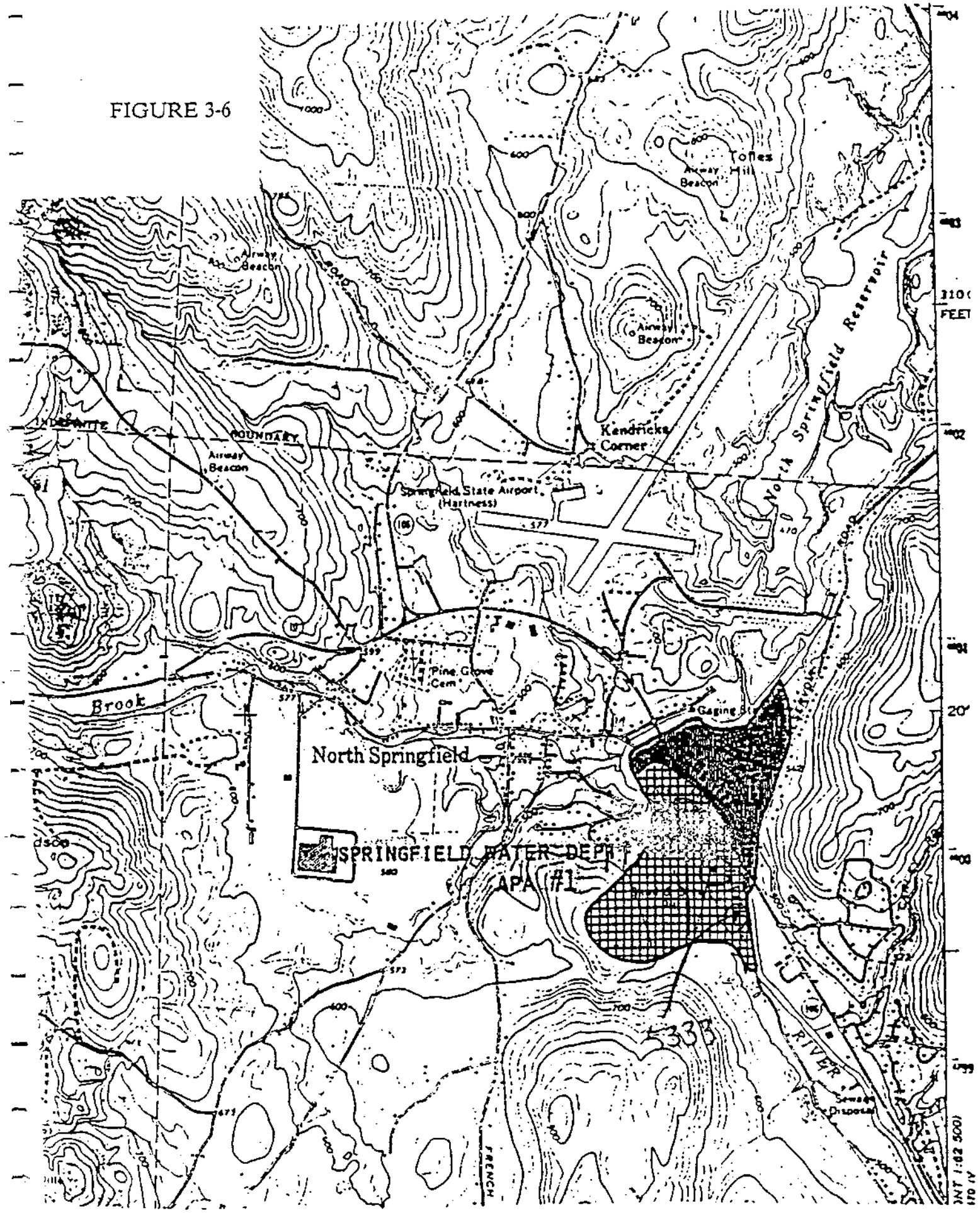
summary
EARTH BORING 22'
ROCK CORING
SAMPLES 5
HOLE NO. DH-2

Appendix F

Springfield Supply

Aquifer Protection Area

FIGURE 3-6


Tolles
Airway Beacon
Airway Beacon
Airway Beacon
Kendricks Corner
North Springfield Reservoir
BOUNDARY
Springfield State Airport (Hartness)
Pine Grove Cem
Brook
North Springfield
SPRINGFIELD WATER DEPT
APA #1
335
RIVER
FRENCH
FEET

Appendix G

Laboratory Analytical Reports

and Field Sheets

eastern analytical

professional laboratory services

RECEIVED
JUL 21 1997

Oscar Garcia
Dufresne-Henry
Precision Park
N. Springfield, VT 05150

Subject: Laboratory Report

Eastern Analytical, Inc. ID:	9303 DUFVT
Client Identification:	4170055 Sovey Motors
Date Received:	07/10/97
Sample Quantity/Type:	3 aqueous

Dear Mr. Garcia:

Enclosed please find the laboratory report for the above identified project. All analyses were subjected to rigorous quality control measures to assure data accuracy. Unless otherwise stated, all holding times, preservation techniques, container types and sample condition adhered to EPA protocol.

The following standard abbreviations and conventions apply throughout all Eastern Analytical, Inc. reports:

- < = "less than" followed by the detection limit
- TNR = Testing Not Requested
- ND = None Detected, no established detection limit
- BRL = Below Reporting Limits

If you have any questions regarding the results contained within, please feel free to directly contact me, the department supervisor, or the analytical chemist who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Will Brunkhorst (BU)
Will Brunkhorst, President

7/17/97
Date

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 9303

Client: Dufresne-Henry

Client Designation: **4170055 Sovey Motors**

Volatile Organic Compounds

Sample ID:	DH-1	DH-2	MW-2
Matrix:	Aqueous	Aqueous	Aqueous
Date Received:	7/10/97	7/10/97	7/10/97
Units:	µg/L	µg/L	µg/L
Date of Analysis:	7/15/97	7/15/97	7/15/97
Analyst:	TML	TML	TML
Method:	*8020(mod)	*8020(mod)	*8020(mod)
MTBE	< 20	< 20	< 20
Benzene	**1**	< 1	**2**
Toluene	**2**	< 1	1
Ethylbenzene	**14**	< 1	< 1
m,p-Xylene	**21**	< 1	< 1
o-Xylene	**15**	< 1	**3**

*8020(mod): MTBE included in compound calibrations.

Approved by: Clifford Chase, Volatile Organics Supervisor

9303

CHAIN OF CUSTODY FORM

DH Dufresne–Henry, Inc.
Precision Park
N. Springfield, VT 05150 (802)886–2261

Generator: Savoy Motors
Facility #:
Client:
Sampled By: Scott / Brock

Page 1 of 1
DH #: 4170055
Client #:
State Sampled: VT

Return To: Scott
Address:

Sample Identification	Date Start / Stop	Time Start / Stop	Comp. Desc.	Water Liquid / Solid	# / Size Containers	Field Preserved Y / N	Field Filtered Y / N	Analysis Requested	Est. Lab Cost ($)
DH-1	7/9/97	PM	D	W	2-40 ml	HCl	N	BTEX	
DH-2	↓	↓	↓	↓	↓	↓	↓	↓	
MW-2	↓	↓	↓	↓	↓	↓	↓	↓	

Generator Rep. Authorization:
Estimated Lab Analysis Total

Relinquished By Generator:
Date:
Time:

Relinquished By: Scott Brock
Date: 7/9/97
Time: 4:00

Received By: UPS
Date:
Time:

Received By: Jason Mills CA 1
Date: 7/10/97
Time: 1100 AM

PLEASE RETURN COMPLETED CHAIN OF CUSTODY WITH ANALYTICAL RESULTS

WEWCUST.WK1

DH DUFRESNE–HENRY

WELL SUMMARY FORM

LOCATION:	CONTAINER:	DATE:
EPA TEST:	PRESERVED:	DH #:

MW #	SAMPLE #	TIME	TOP LIQUID PVC DIST.	TOP LIQUID CASE DIST. (REV)	WELL BOTTOM PVC DIST.	WELL BOTTOM CASE DIST.	BAIL AMT. (GALLONS)	FREE PROD. (INCHES)	PHOTOVAC (PPM)	NOTE
MW-1	out Back		3.55	3.75 (95.93)	-					9/16
MW-2	by sign		12.35	[illegible]	17.15		2.4		0.6' PVC → mm	9/16
MW-3	out Front		17.20	[illegible]						
DH-1			8.60	[illegible]	12.80		2.1			
DH-2			17.05	[illegible]	19.90		1.4			

3 WELL VOLUMES: 3/4"=0.07H $=\pi R^2 H\ (7.48052)\ (3)$ 1 1/2" = 0.27H 2" = 0.49H 3" = 1.10H

ODG FORM